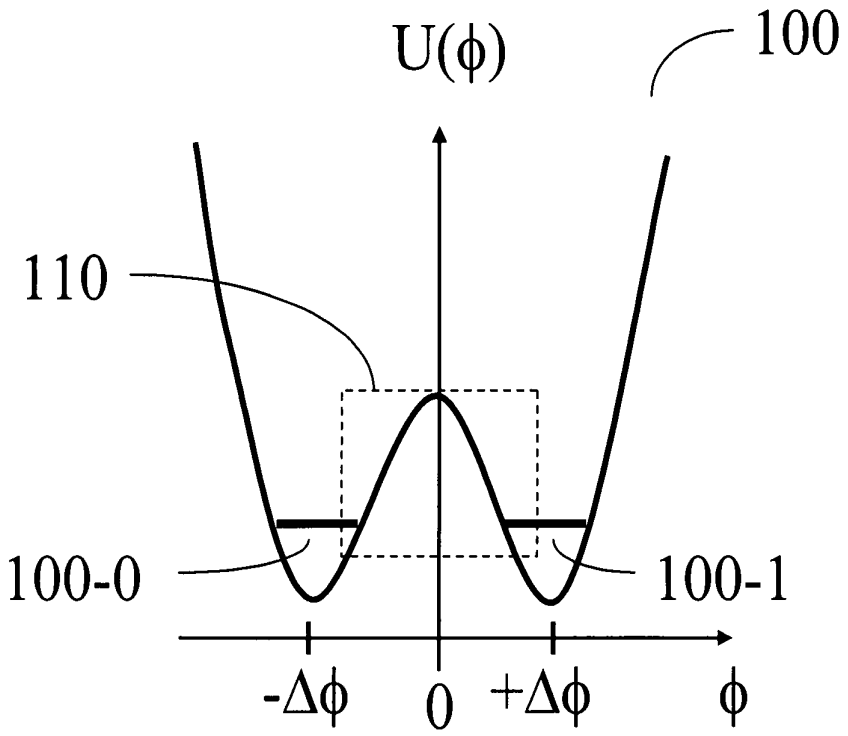


Prior Art

Fig. 1A

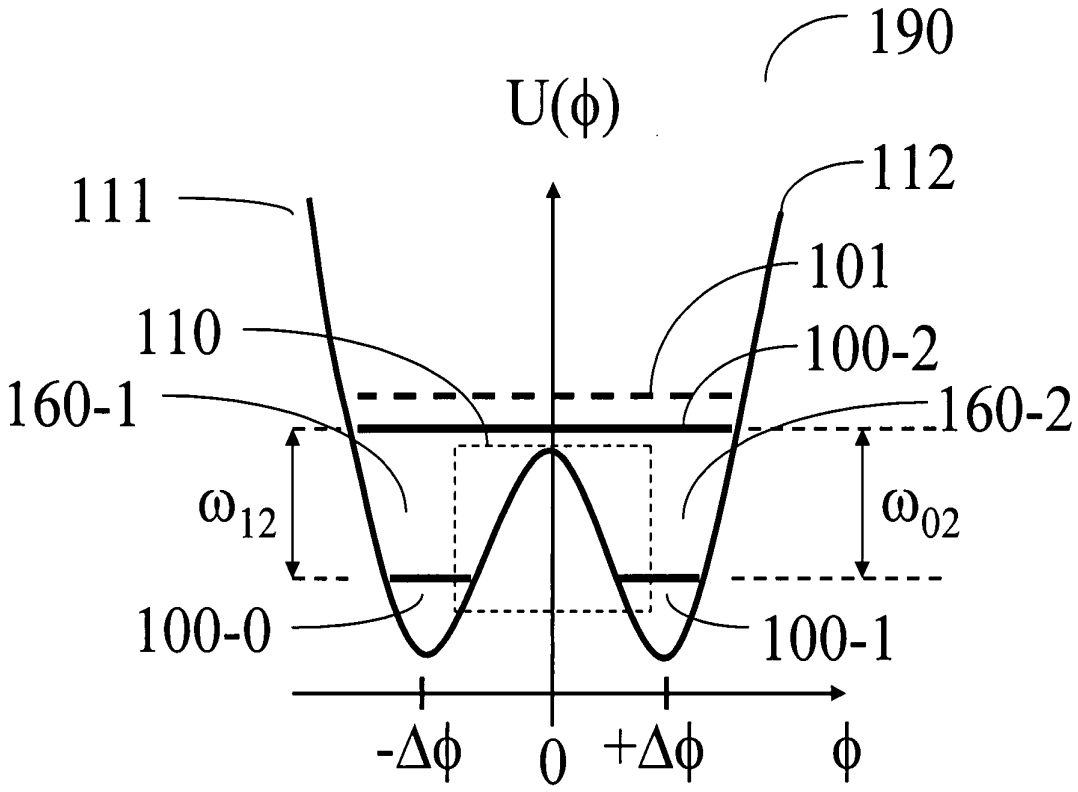


Fig. 1B

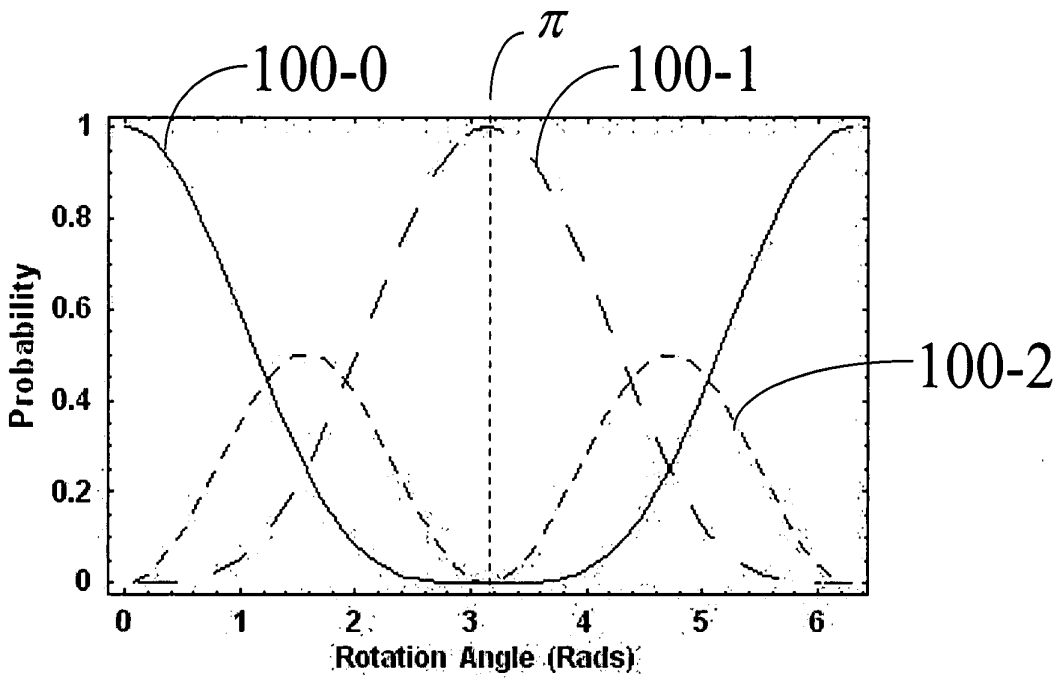


Fig. 1C

$$\delta = 0,$$

$$|u| = 1$$

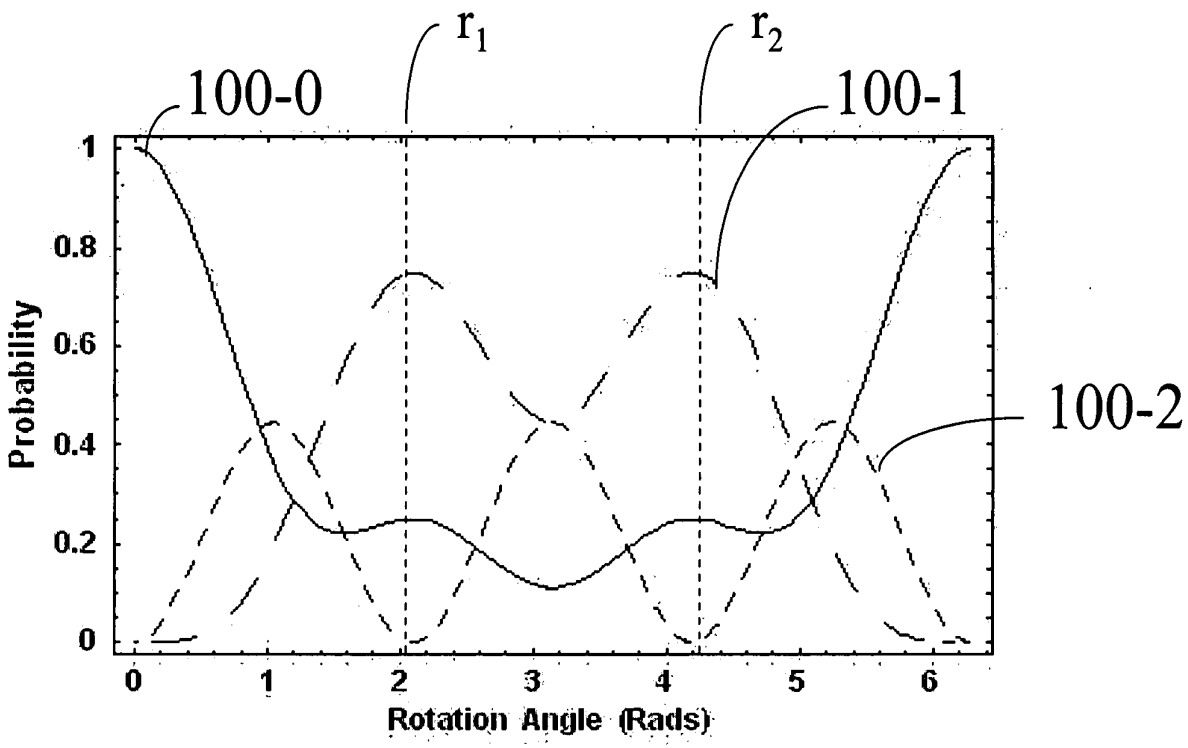


Fig. 1D

$$\delta = 0.5 \cdot |u|,$$

$$|u| = 1$$

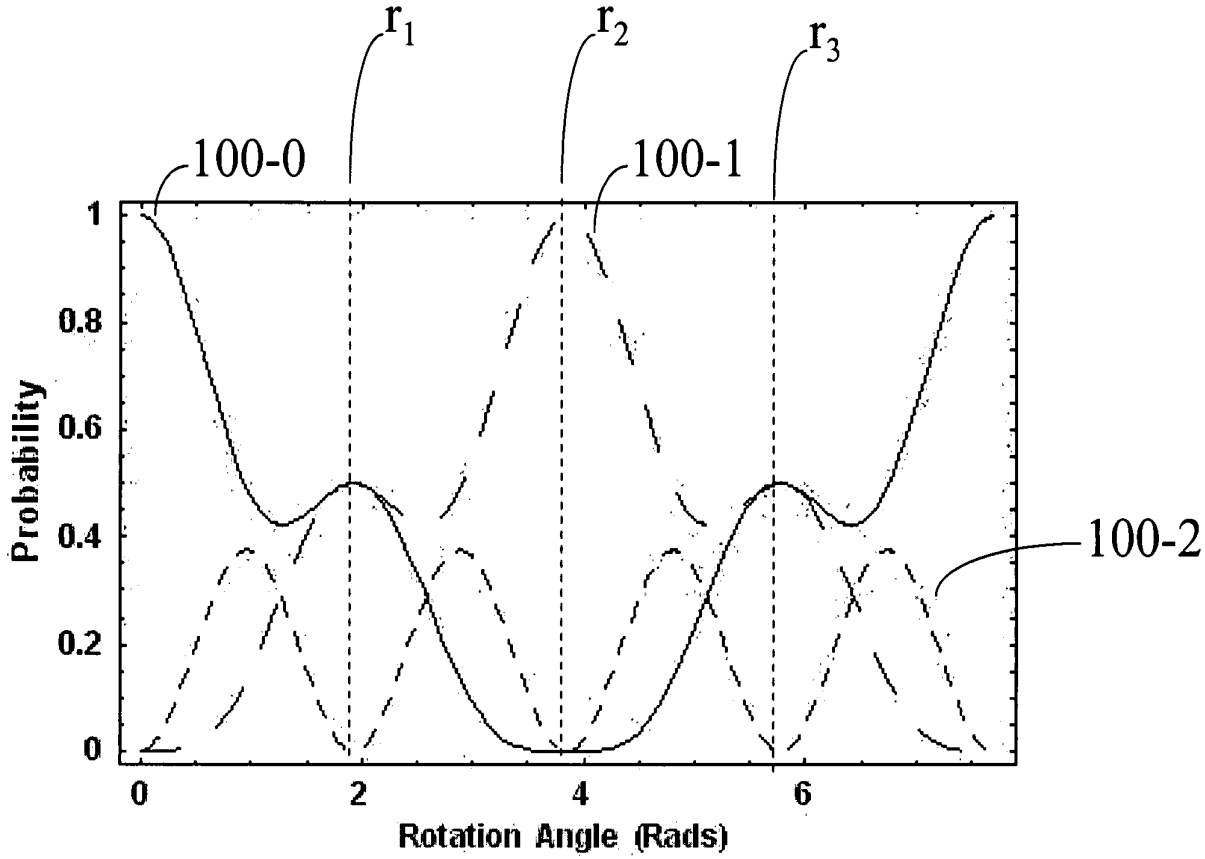


Fig. 1E

$$\delta = \sqrt{\frac{8}{3}} \cdot |u|,$$

$$|u| = 1$$

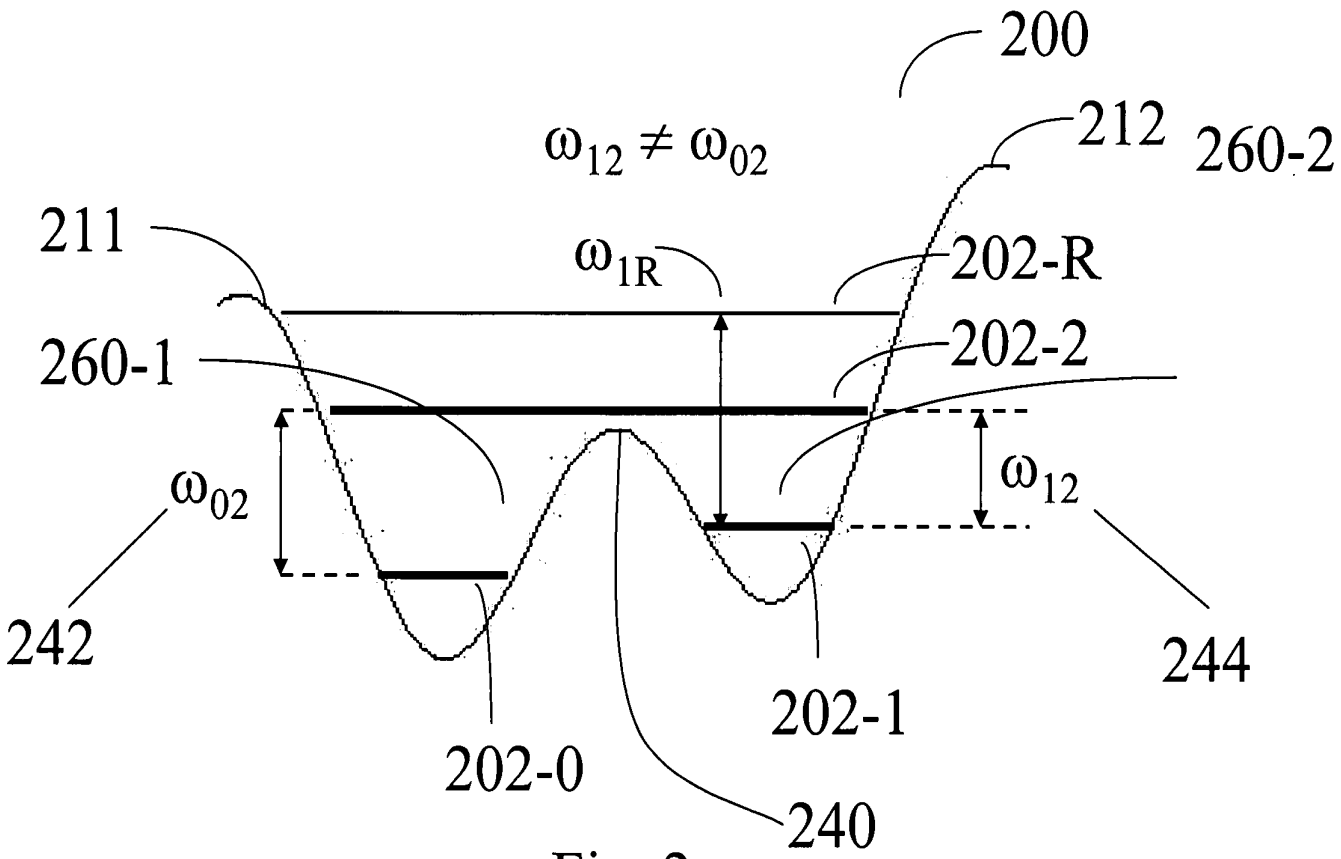

200
$\omega_{12} \neq \omega_{02}$
212
260-2
211
ω_{1R}
202-R
260-1
202-2
ω_{02}
ω_{12}
242
244
202-0
202-1
240

Fig. 2

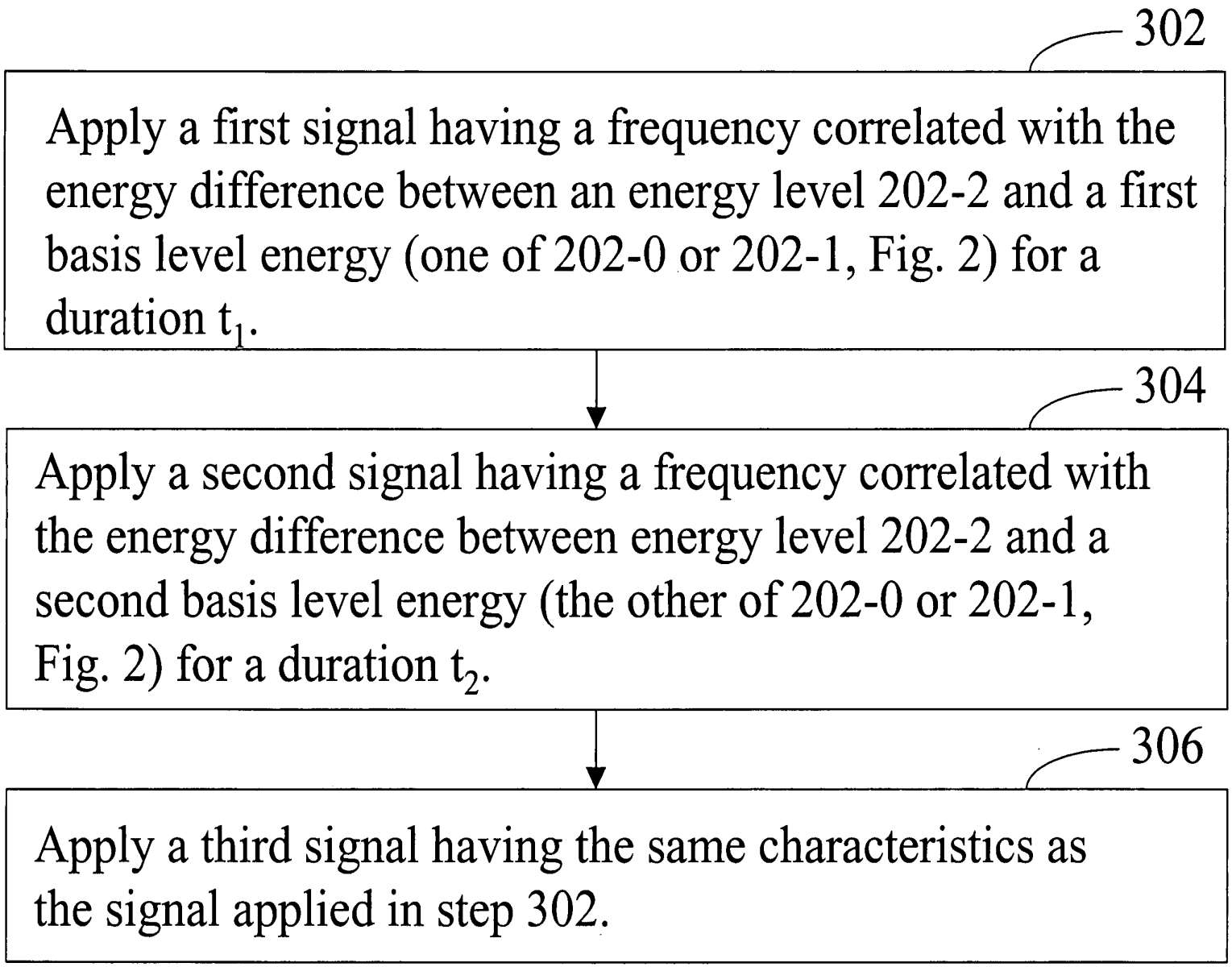

302
Apply a first signal having a frequency correlated with the energy difference between an energy level 202-2 and a first basis level energy (one of 202-0 or 202-1, Fig. 2) for a duration t_1.
304
Apply a second signal having a frequency correlated with the energy difference between energy level 202-2 and a second basis level energy (the other of 202-0 or 202-1, Fig. 2) for a duration t_2.
306
Apply a third signal having the same characteristics as the signal applied in step 302.

Fig. 3

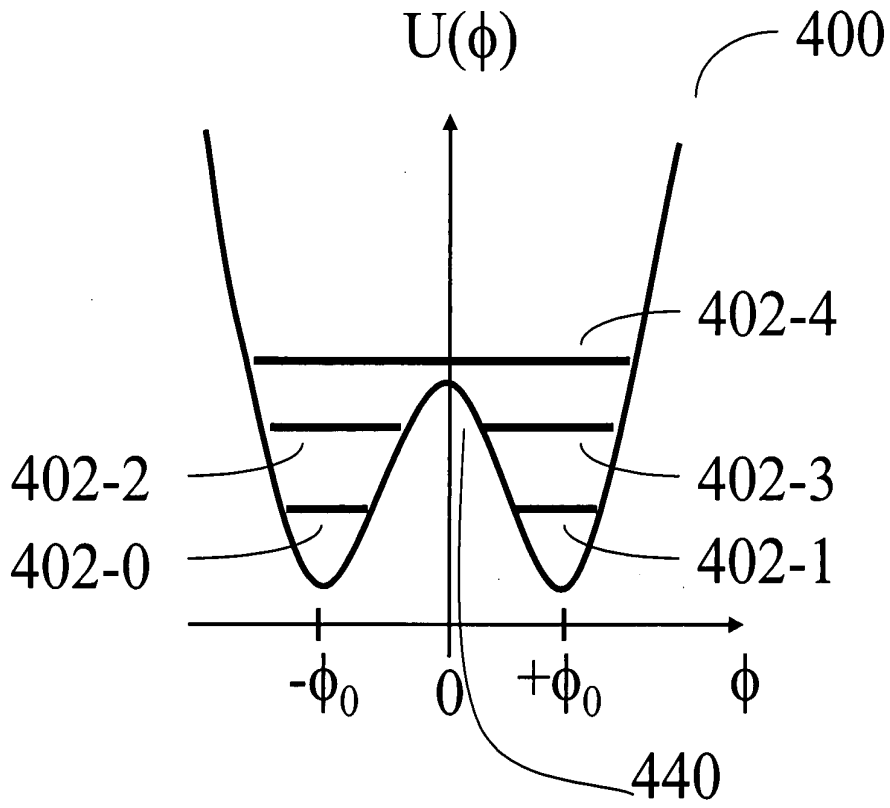


Fig. 4

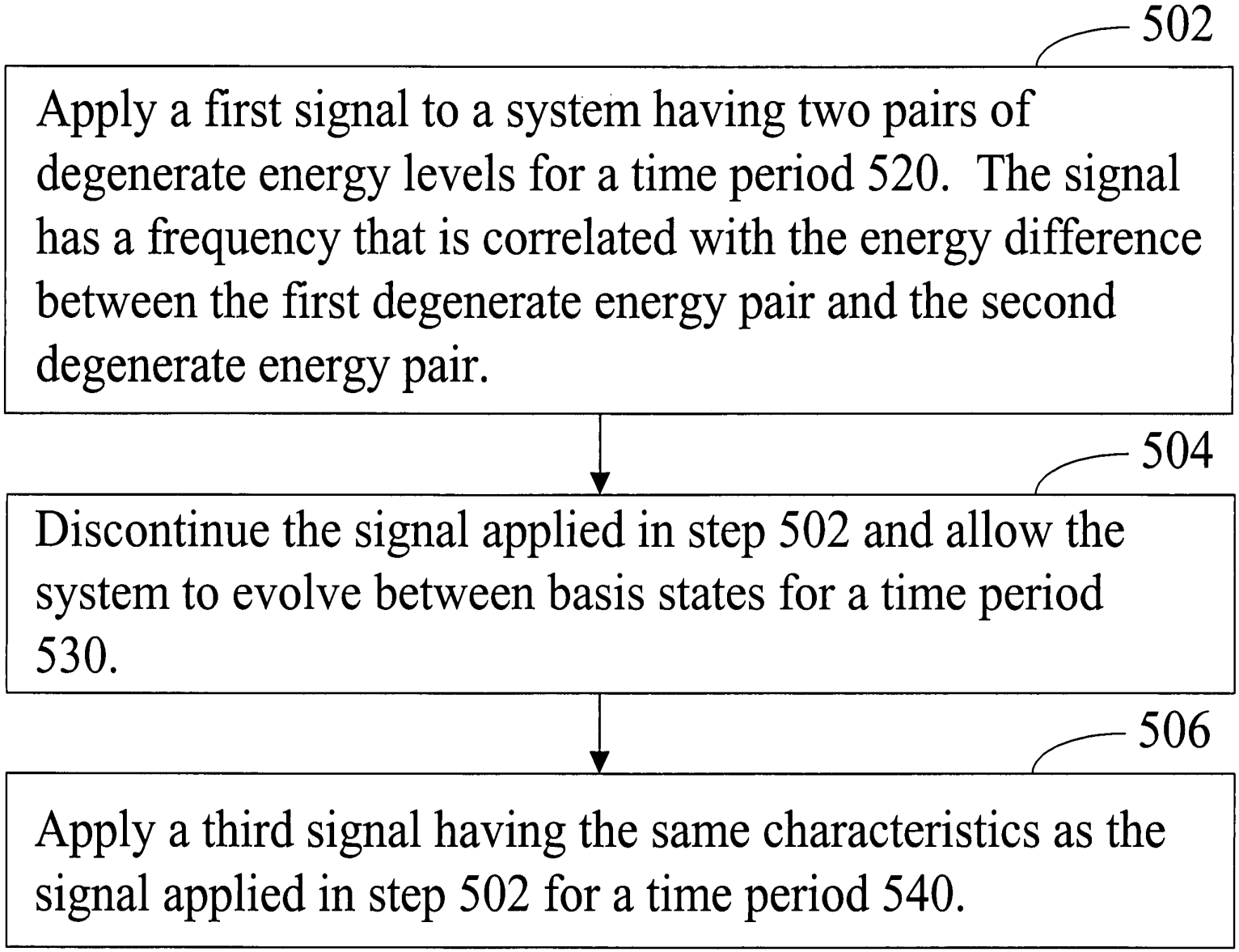

502
Apply a first signal to a system having two pairs of degenerate energy levels for a time period 520. The signal has a frequency that is correlated with the energy difference between the first degenerate energy pair and the second degenerate energy pair.
504
Discontinue the signal applied in step 502 and allow the system to evolve between basis states for a time period 530.
506
Apply a third signal having the same characteristics as the signal applied in step 502 for a time period 540.

Fig. 5

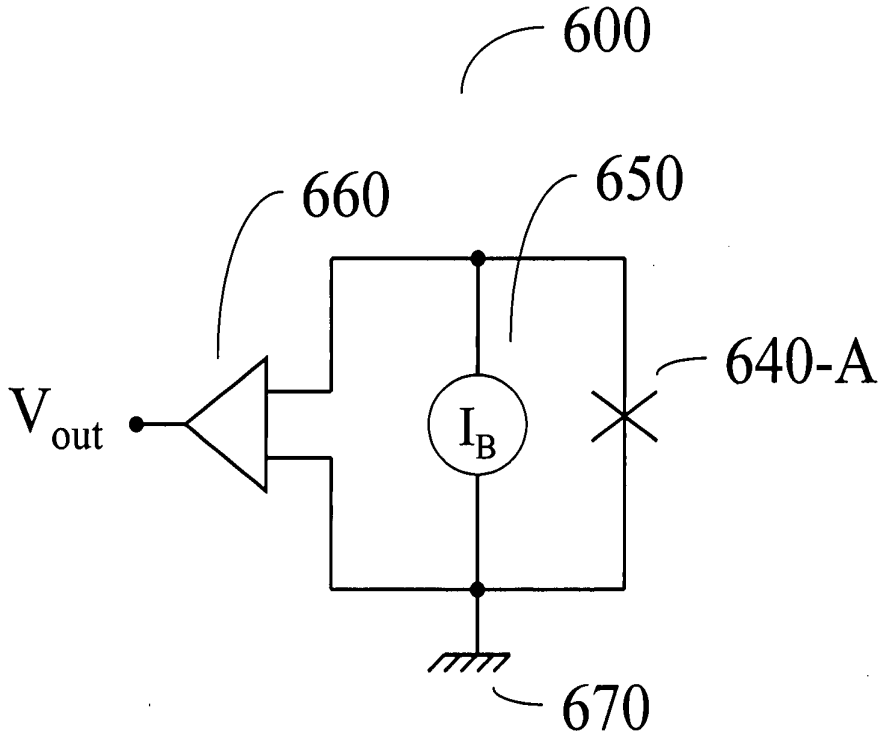


Fig. 6A

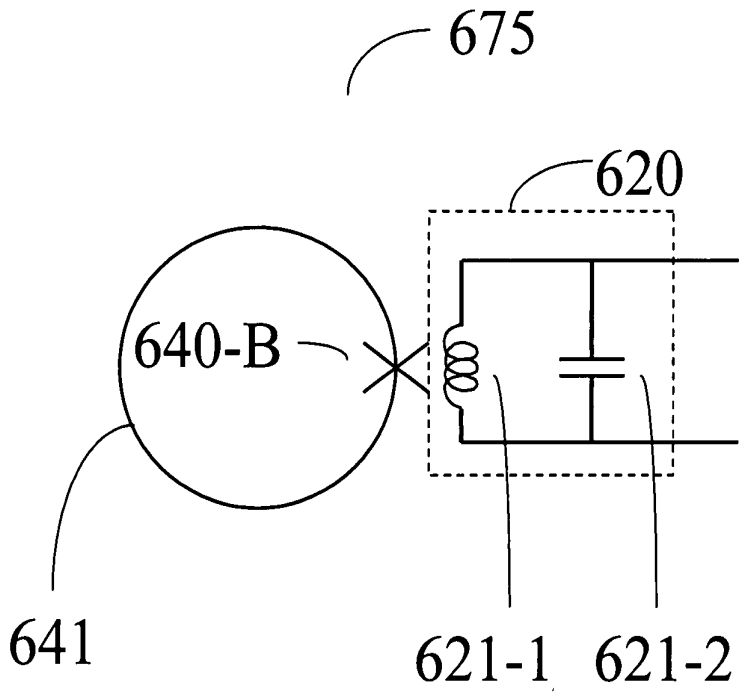


Fig. 6B

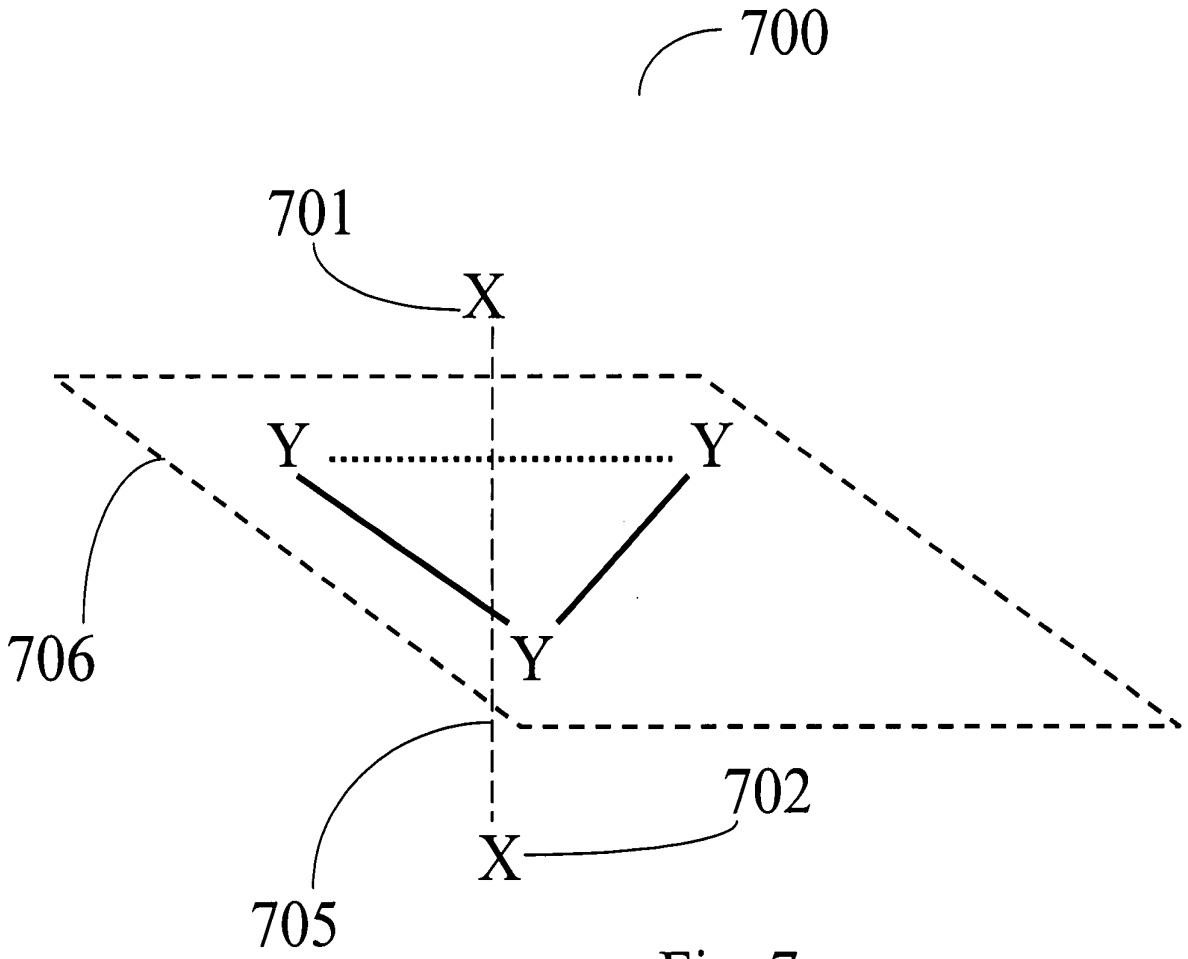
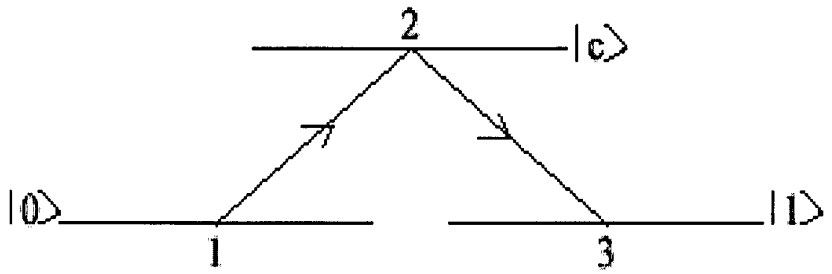


Fig. 7



Prior Art

Fig. 8